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DR - 0326-U 1669-U 1759-U 1966-U

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MC - D03-A04 E10-J02C4 E31-N04C E31-P02D E34-C02 E35-A E35-K02 E35-U04

M3 - [01] A429 A940 C108 C316 C540 C730 C801 C802 C803 C804 C805 M411 M417
M782 M903 M904 N163 Q224 Q508 R044; 9014-C4101-M 9014-C4101-R; 1327-U
0502-U

- [02] A313 A940 B114 B701 B712 B720 B831 C101 C108 C802 C804 C805 C807
M411 M782 M903 M904 N163 Q224 Q508 R044; R03126-M R03126-R; 1327-U
0502-U

- [03] A422 A940 C108 C550 C730 C801 C802 C803 C804 C805 C807 M411 M782
M903 M904 M910 N163 Q224 Q508 R044; R01966-M R01966-R; 1327-U 0502-U

- [04] C106 C810 M411 M782 M903 M904 M910 N163 Q224 Q508 R044; R01669-M
R01669-R; 1327-U 0502-U

- [05] H7 H721 M210 M212 M320 M416 M610 M750 M903 M904 M910 N163 Q224;
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PA - (SUMH) SUMITOMO HEAVY IND LTD

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XA - C1990-045042

XIC - A23B-007/15 ; B01D-053/02 ; B01J-020/02

AB - J02052040 Absorbent of ethylene (I) is made of cupric salt, reducing
agent, and porous carrier that carries cuprous salt. The method of
preserving the freshness of plants using (1) is disclosed.

- USE/ADVANTAGE - Available for mfg. absorbent of ethylene, applicable
to the preservation of the freshness of fruit and flowers. Flowers and
fruit, after they have been cropped, maintain life by transforming
organic substances to energy, and generating CO₂, H₂O, and ethylene.
Ethylene is the plants hormone that makes the fruit ripen and promotes
buds to flower. This product is safe, easy to handle, has high
absorbing capacity for ethylene, and can be easily regenerated by dry
inert gas.

- In an example, (1) activated carbon, (2) activated alumina, (3)
titanium oxide, and (4) bentonite are immersed into 6% aq. soln. of
cupric sulphate then added 10% aq. soln. of ferrous sulphate and made
cuprous salt to ppte on the carrier, filtered and heated in the
nitrogen gas at 100 deg C. 0.5 g of the absorbents were put into 200
ml of glass container which was filled with air contg. 500 ppm of
ethylene, after 30 mins. conc. of ethylene decreased to 2-5 ppm,
whereas in case of carrier alone (1)-(4) the concn. of ethylene were
1221-495 ppm.(0/1)

CN - 9014-C4101-M 9014-C4101-R R00326-X R01669-M R01669-R R01966-M R01966-R
R03126-M R03126-R

DRL - 0502-U 1327-U

IW - PRESERVE FRESH PLANT ETHYLENE ABSORB COMPRISE CUPRIC SALT REDUCE AGENT
CUPROUS POROUS CARRY

IKW - PRESERVE FRESH PLANT ETHYLENE ABSORB COMPRISE CUPRIC SALT REDUCE AGENT